

WHAT IS CLAIMED IS:

1. A program executing management system comprising:

5 a processing element definition unit for storing, for each identification information of a process which sequentially uses a plurality of processing elements, the identification information and execution order of a plurality of processing elements used in the process;

10 a recovery processing element definition unit for storing the identification information of a recovery processing element to be executed when abnormality occurs, for each identification information of the plurality of processing elements;

15 an executing unit for referring to said processing element definition unit to obtain the identification information of a processing element to be processed next, on the basis of a processing element use request from the process, and executing the processing element corresponding to the obtained identification information; and

20 a recovery executing unit for, when an abnormality occurs during execution of a processing element by said executing unit, referring to said recovery processing element definition unit on the basis of the identification information of the processing element which has
25 caused the abnormality, and executing a recovery processing element corresponding to the abnormality.

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2. A program executing management system
according to claim 1, wherein

an application executes the process,

5 said system further comprises the plurality of
processing elements to be sequentially used and
an application executing unit for executing the
application,

10 said processing element definition unit stores
the identification information and execution order of
a plurality of processing elements to be used, for each
identification information of an application, and

15 said executing unit refers to said processing
element definition unit to obtain the identification
information of a processing element to be processed
next, on the basis of a use request from the applica-
tion, and executes the processing element corresponding
to the obtained identification information.

3. A program executing management system
according to claim 1, further comprising a number
20 issuing unit for, when an execution request for the
process is generated, issuing an unique number
corresponding to the execution request,

25 wherein said executing unit identifies a
processing element use request from the process for
each unique number issued by said number issuing unit,
manages the number of executed processing elements for
each unique number, refers to said processing element

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definition unit on the basis of the number of executed processing elements, obtains the identification information of a processing element to be executed next, and executes the processing element corresponding to the obtained identification information.

4. A program executing management system comprising:

10 a processing element definition unit for storing, for each identification information of a process which sequentially uses a plurality of processing elements, the identification information and execution order of a plurality of processing elements used in the process;

15 a recovery processing element definition unit for storing the identification information of a recovery processing element to be executed when abnormality occurs, for each identification information of the plurality of processing elements;

20 an executing unit for, when an execution request for the process is generated, referring to said processing element definition unit on the basis of the identification information of the process, and sequentially executing a plurality of processing elements corresponding to the identification information of the process in the execution order of the elements; and

25 a recovery executing unit for, when an abnormality occurs during execution of a processing element by said

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executing unit, referring to said recovery processing element definition unit on the basis of the identification information of the processing element which has caused the abnormality, and executing a recovery processing element corresponding to the abnormality.

5 5. A computer-readable computer program product comprising:

10 an executing code for referring to, on the basis of a process use request from a process which sequentially uses a plurality of processing elements, the identification information and execution order of a plurality of processing elements, stored for each identification information of the process and to be used in the process, obtaining the identification information of a processing element to be processed next, and executing the processing element corresponding to the obtained identification information; and

15 a recovery executing code for, when an abnormality occurs during execution of a processing element by said executing code, referring to the identification information of a recovery processing element, stored for each identification information of the plurality of processing elements and to be executed when the abnormality has occurred, on the basis of the identification information of the processing element which has caused the abnormality, and executing a recovery processing element corresponding to the

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abnormality.

6. A computer-readable computer program product according to claim 5, wherein

the process is an application which requests
5 the use of the plurality of processing elements,
said product comprises the plurality of processing elements to be sequentially used and an application executing code for executing the application, and

said executing code refers to the identification
10 information and execution order of a plurality of processing elements, stored for each identification information of the application and to be used in the application, on the basis of a use request from the application, obtains the identification information of
15 a processing element to be processed next, and executes the processing element corresponding to the obtained identification information.

7. A computer-readable computer program product according to claim 5, further comprising a number
20 issuing code for, when an execution request for the process is generated, issuing an unique number corresponding to the execution request,

wherein said executing code identifies a processing element use request from the process for
25 each unique number issued by said number issuing unit, manages the number of executed processing elements for each unique number, refers to the identification

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information and execution order of a plurality of processing elements stored for each identification information of the process, obtains the identification information of a processing element to be executed next on the basis of the number of executed processing elements, and executes the processing element corresponding to the obtained identification information.

8. A computer-readable computer program product comprising:

an executing code for, when an execution request for a process which sequentially uses a plurality of processing elements is generated, referring to a plurality of processing elements so stored as to correspond to the identification information of the process and the execution order of the elements, and sequentially executing the plurality of processing elements made to correspond to the identification information of the process; and

a recovery executing code for, when an abnormality occurs during execution of a processing element by said executing code, referring to the identification information of a recovery processing element, stored for each identification information of the plurality of processing elements and to be executed when the abnormality has occurred, on the basis of the identification information of the processing element

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which has caused the abnormality, and executing a recovery processing element corresponding to the abnormality.

9. A computer-readable computer program product comprising:

an executing code for referring to, on the basis of a process use request from a process which sequentially uses a plurality of processing elements, the identification information and execution order of a plurality of processing elements, stored for each identification information of the process and to be used in the process, obtaining the identification information of a processing element to be processed next, and executing the processing element corresponding to the obtained identification information; and

a result notification code for notifying the process of the result of execution of a processing element by said executing code.

10. A computer-readable computer program product comprising:

an input code for inputting the identification information of a process which sequentially executes a plurality of reusable processing elements, the identification information of a plurality of processing elements used in the process, and the execution order of the plurality of processing elements; and

a definition code for storing, for each

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identification information of the process, the identification information of a plurality of processing elements used in the process, and the execution order of a plurality of processing elements used in the process.

11. A computer-readable computer program product according to claim 10, further comprising:

an executing code for, when the identification information of a process to be executed is input, referring to the contents defined by said definition code, and executing a processing element corresponding to the input identification information of the process in an execution order corresponding to the input identification information of the process; and

a result notification code for notifying the process of the result of execution of a processing element by said executing code.

12. A process executing management method using a computer system, comprising:

the executing step of referring to, on the basis of a process use request from a process which sequentially uses a plurality of processing elements, the identification information and execution order of a plurality of processing elements, stored for each identification information of the process and to be used in the process, obtaining the identification information of a processing element to be processed

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next, and executing the processing element
corresponding to the obtained identification
information; and

the result notification step of notifying the
5 process of the execution result of a processing element
obtained in the executing step.

13. A process executing management method using
a computer system, comprising:

the input step of inputting the identification
10 information of a process which sequentially executes
a plurality of reusable processing elements, the
identification information of a plurality of processing
elements used in the process, and the execution order
of the plurality of processing elements; and

15 the definition step of storing, for each
identification information of the process, the
identification information of a plurality of processing
elements used in the process, and the execution order
of a plurality of processing elements used in the
20 process.

14. A method according to claim 13, further
comprising:

the executing step of, when the identification
information of a process to be executed is input,
25 referring to the contents defined in the definition
step, and executing a processing element corresponding
to the input identification information of the process

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in an execution order corresponding to the input
identification information of the process; and

the result notification step of notifying the
process of the execution result of a processing element
obtained in the execution step.

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